

BETTER MACHINES FOR LOWER PRICES

ROZMITAL

Agricultural machinery for fodder production



- DISC MOWERS
- FODDER TEDDERS
- FODDER RAKES
- UNIVERSAL TEDDERS AND RAKES



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G.F.COYLE Limited - importer to Ireland

DISC MOWERS



SD - 260 4

SD - 300.....4

NEW

FODDER TEDDERS



OZ - 454 7

OZ - 524.....7

OZ - 676.....8

OZ - 776.....9

NEW

OZ - 898.....10

SINGLE-ROTOR RAKES



SB - 3621.....13

SB - 3921.....13

SB - 4231.....14

SB - 4631.....14

SB - 4941.....15

MID-ROW RAKES



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LATERAL RAKES



SB - 1352.....18

UNIVERSAL TEDDERS AND RAKES



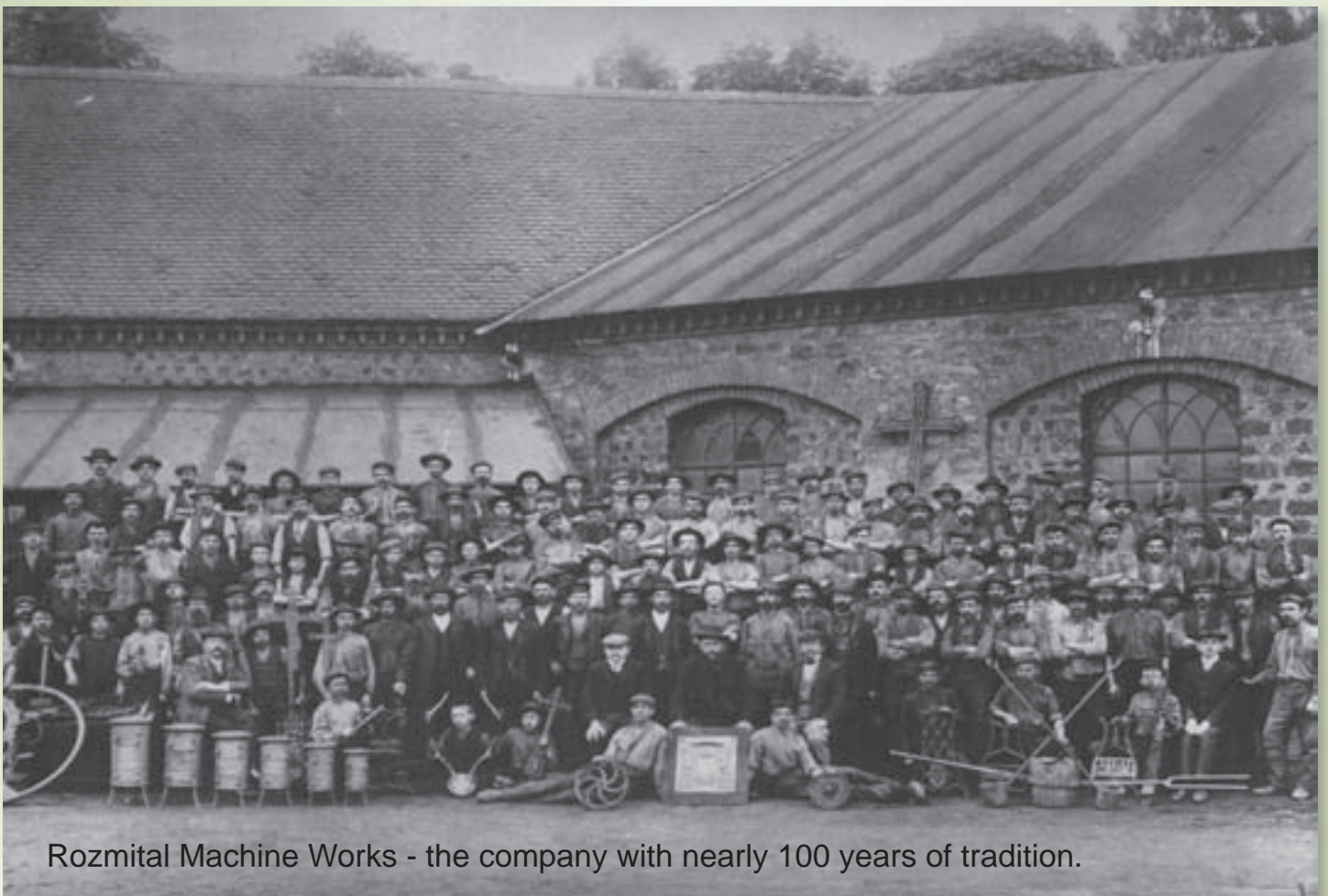
SP4 - 152.....21

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HISTORY

Brief history of Machinery works in Rozmítal

Machinery works in Rožmítal is a long-tradition Czech company, which was established in 1913 and nowadays belongs to the RAVAK a.s. holding. In the past, there was electric motor production, air-conditioning production and steel furniture production in Rozmítal. Agricultural machinery, such as hay conveyors, seed blowers, hop carts and straw presses were produced in Rozmítal since 1946. Fodder tedder and rake production started in 1970's, when Machinery works in Rozmítal acquired a licence to a camshaft mechanism from the Stoll Company. Fodder tedder and rake production has successfully continued until present. Machinery works in Rozmítal cooperated or still cooperate with foreign companies, such as CASE, Gőweil, John Deere and Stoll.



Rozmítal Machine Works - the company with nearly 100 years of tradition.

PRESENT



DISC MOWERS

Technical data

		SD - 260	SD - 300
working width max.	m	2,60	3,00
transport width	m	1,75	1,75
transport height	m	3,3	3,64
number of disc	pcs	6	7
num of knives on disc	pcs	2	2
knife size	mm	110x48x4	110x48x4
stubble height	mm	40-80	40-80
area capacity	ha/hour	max. 3,0	max. 3,3
tractor power	kW	60	60
drive shaft speed	rpm	540	540
weight	kg	730	780
connection cardan shaft		AW35086 F900Nm	AW35086 F900Nm

NEW



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DISC MOWERS

SD - 260/300

- Working width 2,60m a 3,00m
- High cut quality
- Centre pivot suspension in the gravity centre of cutter bar
- Double-sided clamping of cutter bar makes robust unit together with frame.
- Skids made from high quality steel
- Hydraulic alleviation and possibility of an exact adjustment of ideal floating cut
- Compact size – hydraulic elements integrated in 3 point hitch
- Friction clutch on PTO shaft protects mower against overloading
- Breakaway device with adjustable triggering force



TEDDERS

Amortization bars

The standard equipment of ROZMITAL machines includes amortization bars for a quieter work and stability of the machine.



The machine is ready for work, the amortization bars must be extended, which can be achieved for example by a slight jerk using the tractor. If the amortization bars are not extended, the machine will not work appropriately.



Machine unfolding - arrest release

Double drive joints enable swaying of tedding beam girders and thus a perfect copying of the terrain.



What kind of a tedder for the particular mower width?

Mower width

	1,65 m	1,80 m	2,20 m	2,60 m	3,00 m	3,40 m
OZ-898						
OZ-776						
OZ-676						
OZ-524						
OZ-454						

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TEDDERS

OZ - 454/524

Technical data

		OZ - 454	OZ - 524
working width max.	m	4,5	5,2
transport width	m	2,64	2,98
rotor diameter	m	1,36	1,72
number of rotors	pcs	4	4
number of arms on rotor	pcs	6	6
number of double fingers on arm	pcs	1	1
area capacity	ha/hour	5,2	6
tractor power	kW	30	30
drive shaft speed	rpm	540	540
weight	kg	555	595
rotor wheels		16x6,5-8	16X6,5-8
connection cardan shaft		AW21101 K33	AW21101 K33

- working width 4.5 m and 5.2m
- robust and durable design
- amortization bars for stable operation and transport
- hydraulically lifted arms
- auto-mechanical arrest of arms for transport
- standard transport wheels 16/6,5-8
- manual turning of rotor leading wheels for side tedding



TEDDERS

OZ - 676

The best selling ROZMITAL machine.

Technical data

		OZ - 676
working width max.	m	6,7
transport width	m	2,64
rotor diameter	m	1,36
number of rotors	pcs	6
number of arms on rotor	pcs	6
number of double fingers on arm	pcs	1
area capacity	ha/hour	7,7
tractor power	kW	44
drive shaft speed	rpm	540
weight	kg	795
rotor wheels		16x6,5-8
connection cardan shaft		AW35101 K33

- working width 6.7 m
- robust and durable design
- standard transport wheels 16/6.5-8
- amortization bars for stable operation and transport
- hydraulically lifted arms and automatic arrest for transport
- possibility of hydraulic turning of rotor wheels for side rake
- high performance
- excellent terrain copying
- excellent price/performance ratio



OZ - 676

TEDDERS

OZ - 776

Technical data

		OZ - 776
working width max.	m	7,7
transport width	m	2,98
rotor diameter	m	1,72
number of rotors	pcs	6
number of arms on rotor	pcs	6
number of double fingers on arm	pcs	1
area capacity	ha/hour	8,8
tractor power	kW	44
drive shaft speed	rpm	540
weight	kg	910
rotor wheels		16x6,5 - 8
connection cardan shaft		AW35101 K34

- working width 7,7 m
- robust and durable design
- hydraulically lifted arms and automatic arrest for transport
- auto-mechanical arrest of arms for transport
- high performance
- amortization bars for stable operation and transport
- excellent price/performance ratio



NEW



TEDDERS

OZ - 898

- working width 8.9 m
- robust and durable design
- excellent terrain copying

- amortization bars for stable operation and transport
- transport undercarriage
- high power
- auto mechanical arrest of arms for transport
- great price/performance ratio

Technical data

		OZ - 898
working width max.	m	8,9
transport width	m	2,64
rotor diameter	m	1,36
number of rotors	pcs	8
number of arms on rotor	pcs	6
number of double fingers on arm	pcs	1
area capacity	ha/hour	9
tractor power	kW	44
drive shaft speed	rpm	540
weight	kg	1380
rotor wheels		16x6,5 - 8
transport wheels		215/65 - 15
connection cardan shaft		AW35121 K33



Transport position



SINGLE - ROTOR RAKES

Adjust your rake appropriately



A single-rotor rake shall be adjusted so that the amortization bars are extended and the pin in the groove is in the far end position during machine operation. This can be achieved by adjusting the top tractor link.



The working finger end of the rakes should be approximately 2 cm over the crop when in off position.



Adjustment of rake undercarriage.



Eccentric pin and a securing nut providing for adjusting of machine horizontal position.



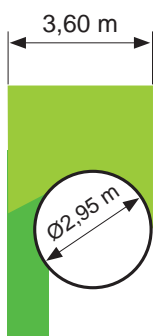
If the leading wheel is used, e.g. a chain must be used for a top tractor link.



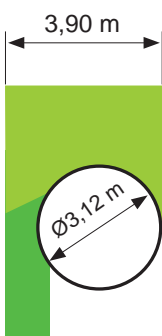
SINGLE - ROTOR RAKES

Operational scope of single - rotor rakes

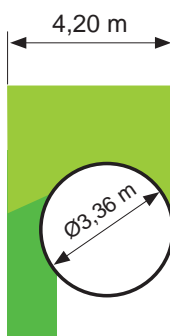
SB - 3621



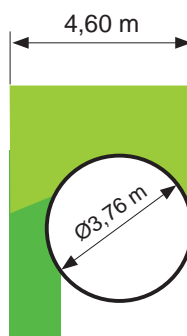
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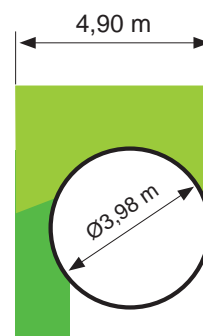
SB - 4231



SB - 4631



SB - 4941



Technical data - single-rotor rakes

		SB-3621	SB-3921	SB-4231	SB-4631	SB-4941
working width max.	m	3,6	3,9	4,2	4,6	4,9
transport width	m	1,68	1,81	1,81	1,85	2,35
rotor diameter	m	2,95	3,12	3,36	3,76	3,98
number of rotors	pcs	1	1	1	1	1
number of arms on rotor	pcs	8	10	10	10	13
number of double fingers on arm	pcs	3	3	4	4	4
area capacity	ha/hour	3,7	4	4,3	4,7	5
tractor power	kW	30	30	30	30	30
drive shaft speed	rpm	540	540	540	540	540
weight	kg	445	555	620	635	855
rotor wheels / size		2 / 16x6,5-8	2 / 16x6,5-8	3 / 16x6,5-8	3 / 16x6,5-8	4 / 18,5x8,5-8
connection cardan shaft		AW21086 K32	AW21086 K32	AW21086 K32	AW21086 K32	AW21121 K33 820Nm 50°

SINGLE - ROTOR RAKES

SB - 3621



SB - 3921



SINGLE - ROTOR RAKES

SB - 4231



FTMTA show Ireland. What is it?

SB - 4631



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SB - 4231
SB - 4631

SINGLE - ROTOR RAKES

SB - 4941 The largest span on the market

- working width 4.9 m
- 13 arm rotor, each with 4 working double fingers
- large gearbox with slow motion gear
- excellent terrain copying with 2 leading wheels
- camshaft mechanism in a closed oil-filled box
- for the largest areas
- excellent price/performance ratio



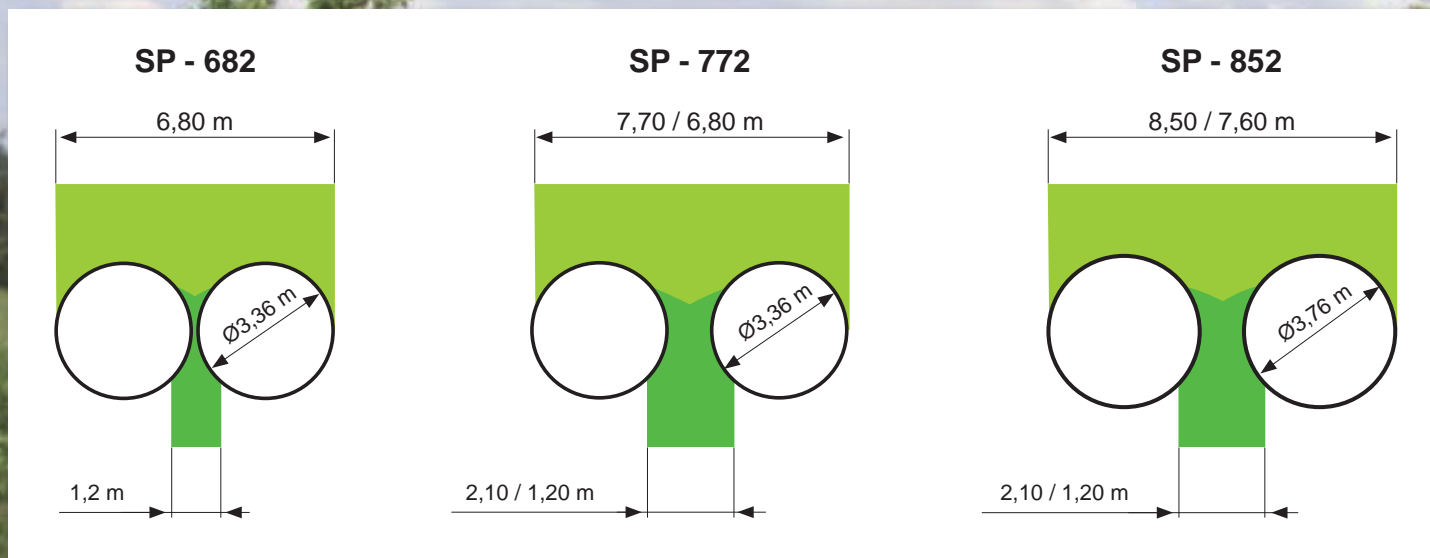
Excellent terrain copying immediately in front of the working fingers, using two leading wheels providing also for an excellent stability of the machine, included in the standard outfit.



Adjustable endstop for rake height adjustment.

TWO-ROTOR RAKES FOR MID - ROW

Operational scope of two-rotor rakes



Technical data - two-rotor rakes

		SP-682	SP-772	SP-852
working width max.	m	6,8	7,7	8,5
transport width	m	2,95	2,95	2,95
rotor diameter	m	3,36	3,36	3,76
number of rotors	pcs	2	2	2
number of arms on rotor	pcs	10	10	10
number of double fingers on arm	pcs	4	4	4
area capacity	ha/hour	7	7,6	8,4
tractor power	kW	44	44	44
drive shaft speed	rpm	540	540	540
weight	kg	1720	1755	1895
rotor wheels / size		3 / 16x6,5-8	3 / 16x6,5-8	3 / 16x6,5-8
transport wheels		225 / 70 - R15	225 / 70 - R15	225 / 70 -R15
internal cardan shaft		AW21101 K32	AW21121 K32	AW21121 K33
connection cardan shaft		AW21101	AW21101	AW21101

TWO-ROTOR RAKES FOR MID - ROW

The best terrain copying can be achieved by adjusting the leading wheel just in front of the working fingers. This type of copying is included in the standard outfit of ROZMITAL two rotor rakes.

- **SP-682**
- **SP-772**
- **SP-852**



TWO-ROTOR RAKES

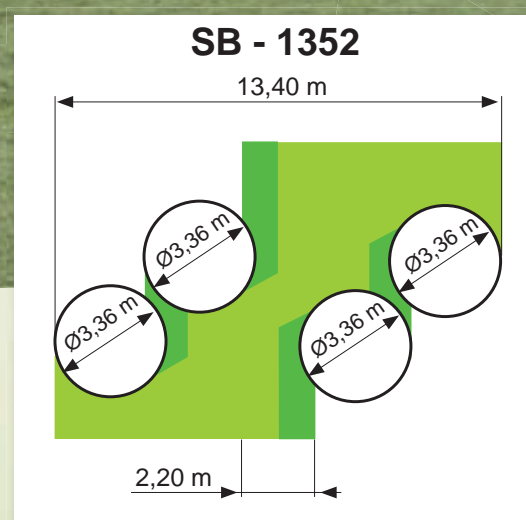
LATERAL

Technical data

		SB - 1352
working width max.	m	6,8
transport width	m	2,35
rotor diameter	m	3,36
number of rotors	ks	2
number of arms on rotor	ks	10 + 13
number of double fingers on arm	ks	4
area capacity	ha/hour	7
tractor power	kW	44
drive shaft speed	rpm	540
weight	kg	1850
rotor wheels / size		6/5/18,5x8,5-8
connection cardan shaft		AW35121 50°

SB - 1352

- variable working width with a row up to 13.4 m
- leading wheels in the standard outfit
- excellent lateral copying just ahead of the working fingers
- hydraulically controlled undercarriages
- independent copying of both rotors
- raking to one or two rows
- working rotors with 10 and 13 arms, each 4 double fingers



Operational scope of SB - 1352 lateral two-rotor rake.

RAKES

Camshaft mechanism with permanent oil filling - since 1998 as a standard in all ROZMITAL machines.

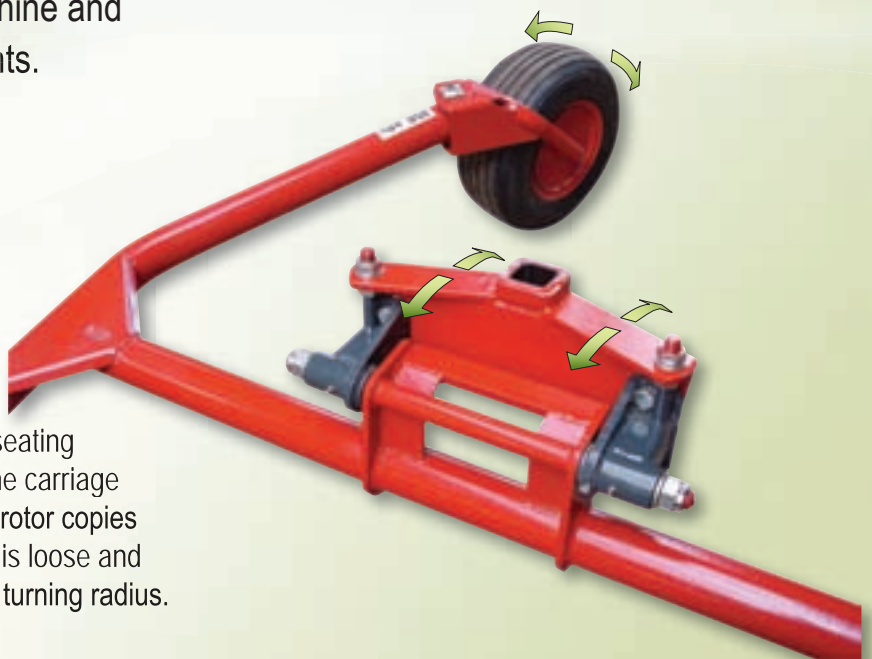


The rotor camshaft mechanism is stored in a closed oil-filled box. **A permanent oil filling** in the box provides for a quiet operation of the machine and a low wear rate of its components.



Meter cap for checking oil level in the camshaft mechanism.

A swinging rotor seating on the machine carriage operates as a tandem undercarriage. Such seating enables rotor back-and-forth tilt. The carriage can thus copy the terrain while the rotor copies the tractor's track. The back wheel is loose and its utilization shortens the machine turning radius.



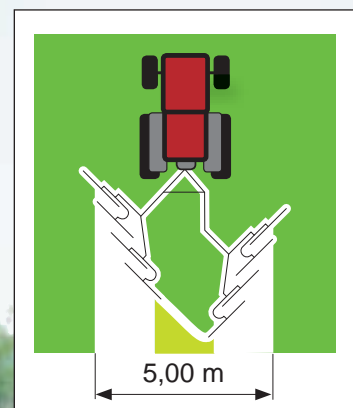
EIGHT - WHEELS RAKES FOR MID - ROW

Technical data

		SP4 - 218
working width max.	m	5
transport width	m	2,99
rotor diameter	m	1,4
number of rotors	pcs	8
area capacity	ha/hour	8
tractor power	kW	30
weight	kg	440

SP4 - 218

- working width 5 m
- low hay shattering and low waste
- simple and easy maintenance
- large-area raking performance
- driven by wheels rolling



SP4 - 218

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UNIVERSAL TEDDERS AND RAKES

Technical data

		SP4 - 152
working width max.	m	tedd.3,5/rak.3,2
transport width	m	2,98
rotor diameter	m	tedd.2,0/rak.1,4
number of rotors	pcs	2
number of arms on rotor	pcs	6
number of double fingers on arm	pcs	2
area capacity	ha/hour	tedd.3,7/rak.3,4
tractor power	kW	30
drive shaft speed	rpm	540
weight	kg	420
rotor wheels / size		16x6,5-8
connection cardan shaft		AW21121 K 32

SP4 - 152

- working width for tedding 3.5 m
- working width for raking 3.2 m
- two operating functions - tedding and raking in a single machine
- appropriate for smaller areas
- simple and quick readjustment between tedding and raking
- amortization bars for quieter work and transport



For tedding and raking, the holders of working fingers shall be adjusted to different positions.



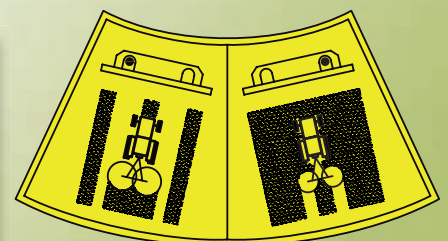
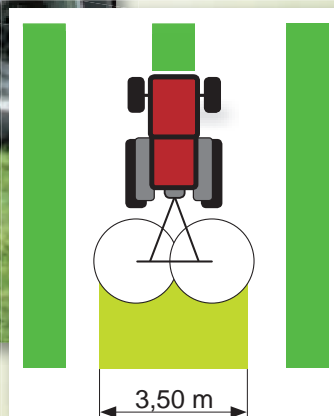
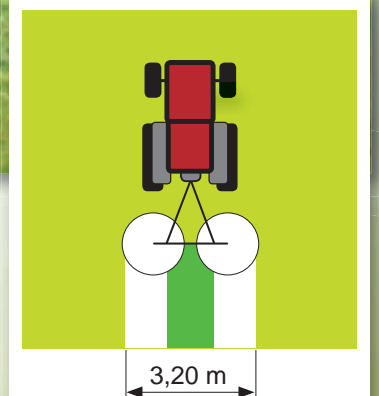
TEDDING

For tedding, the rod walls have to be in transport position. The rod walls are not used for tedding.

Raking - the rod walls are in operating position.



RAKING



Pictogram shows the proper adjustment of both rotors. The machine can be damaged by the wrong adjusting.

UNIVERSAL TEDDERS AND RAKES

SP4 - 205

- working width for tedding 3.1 m
- working width for raking 3.4 m
- two operating functions (tedding and raking) in a single machine
- simple design
- large area performance
- driven by wheels rolling



When tedding, a crossways driving through the rows is recommended.

Technical data

		SP4 - 205
working width max.	m	tedd. 3,1 / rak. 3,4
transport width	m	2,3
rotor diameter	m	1,4
number of rotors	pcs	5
area capacity	ha/hour	tedd. 4,5 / rak. 4,8
tractor power	kW	22
weight	kg	224

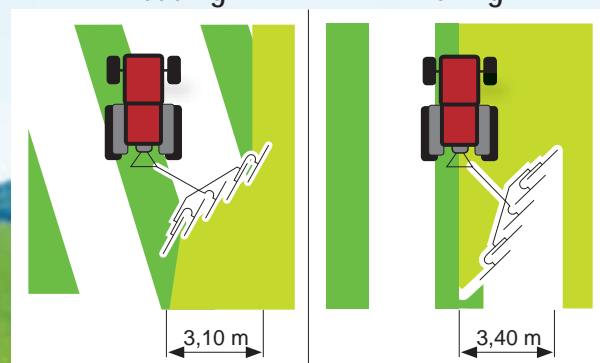


Change of machine's function.



Tedding

Raking



Do not worry

Also old tractors can make good job with ROZMITAL machines.

Machine SP4 - 152
Tractor two-cylinders 20HP



Machine SB - 4941
Tractor three-cylinders 30HP



GREAT MACHINES – GREAT JOB



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SB-4231,
FTMTA show, Ireland 2010



Who can remember yet ...



ROZMITAL

Agricultural machinery for fodder production

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